

# About NordForsk

- A platform for joint Nordic research and research infrastructure cooperation
- Established by the Nordic Council of Ministers in 2005 (consensus decision)
- Provides funding for common Nordic research and research infrastructure activities
- The aim is to identify and facilitate strategic priorities for Nordic research cooperation, and thereby create **Nordic added value**
- Works closely with Nordic Innovation and Nordic Energy Research



# Form of funding

- 1/3 funding from the Nordic Council of Ministers
- 2/3 funding from the national research funding agencies in the Nordic countries
  - NordForsk's board is composed of its main partners: the national research funding agencies in the Nordic countries, and higher education institutions.
- Calls for research cooperation based on common pot with a minimum of three Nordic countries participating



# Added Value by cooperation

## Quality

- Bring excellent researchers and communities together
- Critical mass

## Impact

- Providing Nordic policy-makers and users with evidence-based knowledge.
- Improving knowledge about results of Nordic research and research infrastructure cooperation on the science and society arenas
- Visibility of Nordic region and cooperation

## Cost-efficiency

- Pool Nordic resources
- Avoid duplication in the Nordic countries
- Building long-term common capacity



# Requirements of Joint Initiatives

- Long-term commitment
- Smooth administrative organisation as a driver
- Financial contributions in a common pot
- Good governance structure
- Commitment to promote initiatives and results



# The Nordic Bioeconomy Programme 2017-2022

- Total budget MNOK 90
- Funds three new Nordic Centers of Excellence
- The Bioeconomy Programme will produce new knowledge on how **to foster and advance the transition to a bioeconomy-based society in the Nordic countries** by integrating research, innovation and entrepreneurship in the private and public sectors.
- The Programme is *cross-sectoral* and *interdisciplinary*, and it involves the *private and public sector and other stakeholders*.



# Call 2016-2017

- Stage 1: 30 preproposal, peer reviewed by an international panel
- Stage 2: 10 full applications by invitation
- Three Nordic Centers of Excellence funded
  - An Integrating Nexus of Land and Water Management for a Sustainable Nordic Bioeconomy (BIOWATER)
  - Towards Versatility of Aquatic Production Platforms: Unlocking the Value of Nordic Bioresources (NordAqua)
  - Nordic Centre for Sustainable and Resilient Aquatic Production (SUREAQUA)



# BIOWATER

An Integrating Nexus of Land and Water Management for a Sustainable Nordic Bioeconomy (BIOWATER)

Leader: Eva Skarbøvik, NIBIO

Co-leader: Jan Vermaat, Norwegian University of Life Sciences

<https://biowater.info/>





# BIOWATER

## **BIOWATER consists of 8 Nordic research partners:**

- NIBIO (coordinator, NO)
- Norwegian University of Life Sciences (co-coordinator, NO)
- Finnish Environment Institute (FI)
- University of Oulu (FI)
- Aarhus University (DK)
- Swedish University of Agricultural Sciences (SE)
- Norwegian Institute of Water Research (NO)
- Natural Resources Institute Finland (FI)

## **In addition, there are 5 non-Nordic external collaborating research institutions:**

- JRC-Ispra (Italy)
- Ecologic (Germany)
- Teagasc (Ireland)
- Max Planck Inst for Plant Physiology and Molecular Biology (Germany)
- James Hutton Institute (UK)



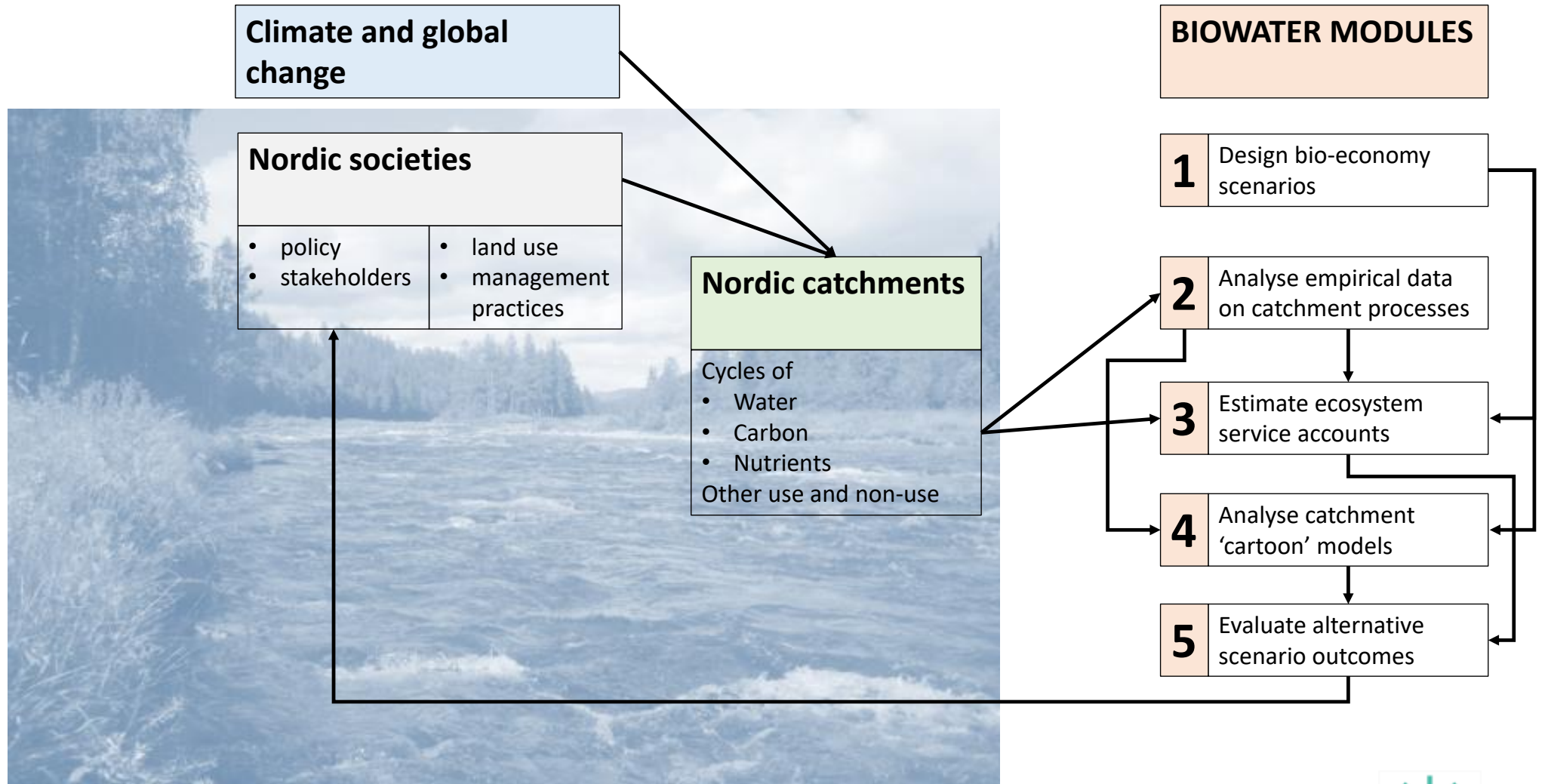
# Objective

to quantify future effects of land use change, climate change due to the green shift on:

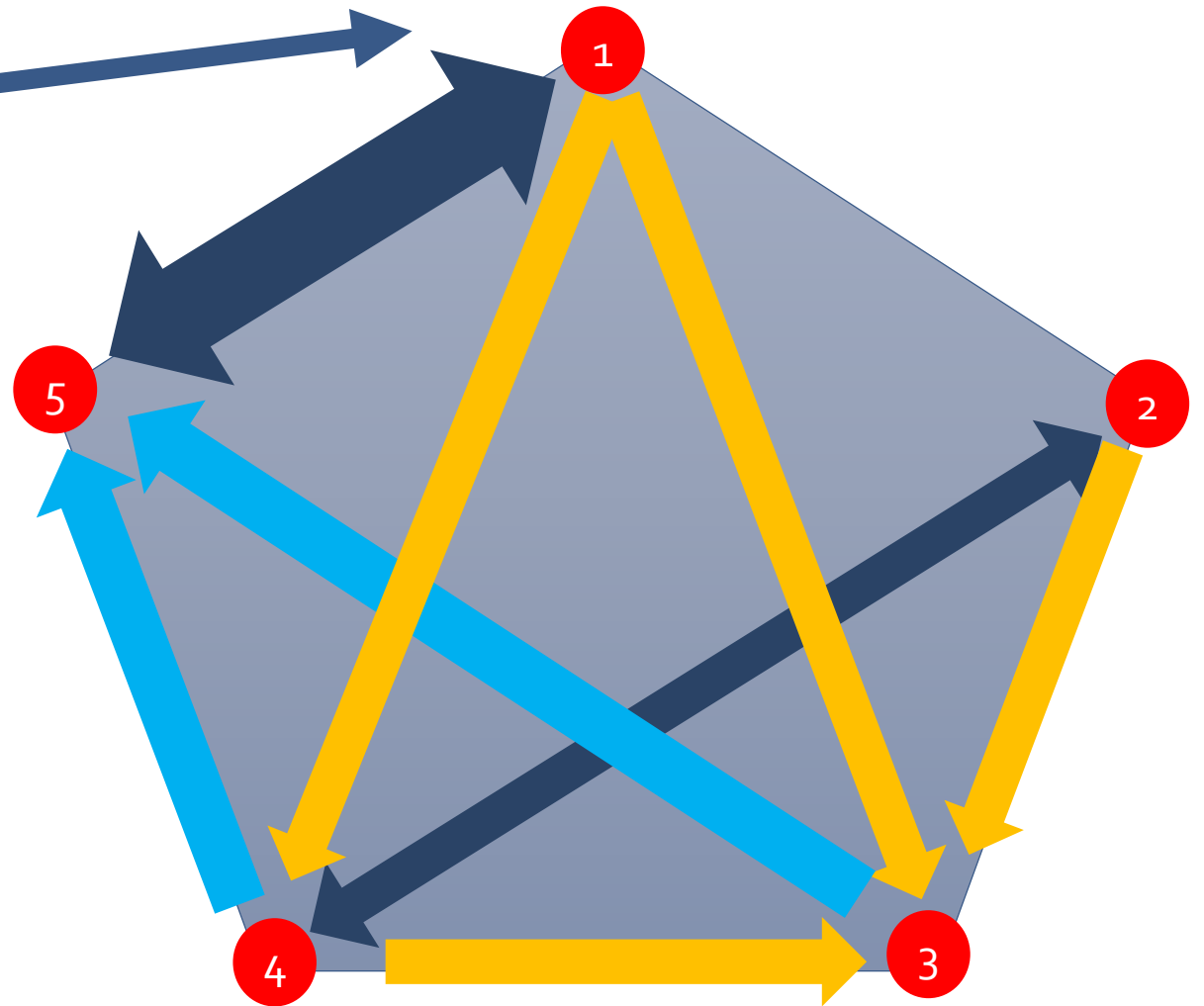
- catchment-scale water, nutrient and carbon cycles
- the delivery of major ecosystem services



# Structure: 5 modules



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Norwegian University  
of Life Sciences



Norwegian Institute for Water Research



Swedish University of  
Agricultural Sciences



AARHUS UNIVERSITY



SYKE



Luke  
Finnish Institute for  
Agriculture and Forestry



UNIVERSITY  
OF OULU

# BIOWATER plans for stakeholder involvement

- A major task of BIOWATER is to look at **future possible land use patterns due to bioeconomy.**
- More than 20 stakeholders to be involved in setting the initial 'conditions': Which scenarios to be modelled/assessed; and what would the outcome of these scenarios be, when we have modelled and assessed?



**Description of cross-sectoral involvement (active involvement of the private innovation actors, including consumers and end-users);**

BIOWATER will use a participatory approach and include stakeholders in research precisely, we will have targeted stakeholder workshops and have a commitment from:

1. Finnish Ministry of the Environment
2. Finnish Forest Centre (in charge of planning private forests resources).
3. Metsähallitus (in charge of planning state forest resources in Finland)
4. Masinotek Ltd. (Finnish company specialized in monitoring systems)
5. Oulu Energy Its (Finland). Regional energy provider
6. Oulu Water Alliance Its (Finland). Drinking and wastewater company
7. Ministry of Agriculture and Forestry (Finland),
8. Oulujoki amp; Iijoki water authority (Finland).
9. The Forestry Research Institute of Sweden (Skogforsk). Central research body
10. The Swedish Forest Agency (Skogsstyrelsen). National authority in charge of
11. The Federation of Swedish Farmers (Lantbrukarnas Riksförbund, LRF) is an in
12. The Swedish Board of Agriculture (Jordbruksverket) is the governments exper
13. The North Baltic Water District Authority (Norra Östersjöns Vattendistrikt) is or
14. WWF Sweden (Världsnaturfonden WWF) is an environmental NGO.
15. Borregaard A/S (Norway). Manufacturer and developer of products based on c
16. Morsa river basin authority (Norway)
17. Glomma river basin district authority (Norway),
18. SEGES P/S. Company under the Danish Agriculture and Food Council being t
19. Danish Agency of Water and Nature Management (SVANA) under the Danish

implementing the WFD and for the national monitoring of Water and Environment.



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# Thanks.

